

INTERNATIONAL JOURNAL OF
COMPUTER MATHEMATICS

Index to Volumes 1-4

76
59
4 #1-4

GORDON AND BREACH SCIENCE PUBLISHERS
NEW YORK LONDON PARIS

Index to Volumes 1 - 4

Ed. note: Number pairs indicate issue(s) and page

VOLUME 1

- Biro, George G.*, A Monte Carlo Study of Back Scattered Gamma Radiation from a Broad Beam Normally Incident on an Infinitely Thick Slab. 2, 177.
- Engle, Alfred and John J. Kennedy*, Modelling Dynamic Economic Problems on the Analog Computer. 4, 289.
- Gavurin, N. K.*, Ill Conditioned Systems of Linear Algebraic Equations. 1, 36.
- Glushkov, V. M.*, Teaching Theory of One Class of Perceptrons. 3, 199.
- Glushkov, V. M.*, The Problems of Self-Organizing Perceptrons. 4, 239.
- Grigor'yan, Y. G.*, An Algorithm for the Solution of Systems of Logical Equations. 1, 51.
- Gurin, L. S.*, Optimization in Stochastic Models. 3, 221.
- Harvey, R. P.*, The Decomposition Principle for Linear Programs. 1, 20.
- Hurley, Wesley V.*, A Mathematical Theory of the Value of Information. 2, 96.
- Kaplan, David*, A General Purpose Message Traffic Simulation System. 4, 273.
- Kennedy, John J.*—see *Engle*.
- Klein, Bertram*, A Rapid Method of Approximating the Asymptote to an Iterative Sequence. 2, 91.
- Lanin, M. I.*, Calculating the Probability of Information Loss in Centralized Supervisory Systems. 1, 73.
- Moroz, A. I.*, A Model for Discrete-Variable Linear Programming. 1, 1.
- Pitrat, Jacques*, Machine Simulation of Intelligence. 2, 146.
- Robinson, J. A.*, Automatic Deduction with Hyper-Resolution. 3, 227.
- Shaffer, L. R.*, Competitive Strategy Models for the Construction Industry. 4, 251.
- Shah, M. J. and W. M. Syn*, A Search Technique for Functional Approximation. 3, 193.
- Sokolov, N. I.*, Synthesis of Automatic Control Systems with Random Inputs I. 1, 58.
- Syn, W. M.*—see *Shah*.
- Ahmed, N. and P. S. Fisher*, Study of Algorithmic Properties of Chebyshev Coefficients. 4, 307.

VOLUME 2

- Ahmed, N. and P. S. Fisher*, Study of Algorithmic Properties of Chebyshev Coefficients. 4, 307
- Distefano, G. Paul*, Causes of Instabilities in Numerical Integration Techniques. 2, 123.
- Fisher, P. S.*—see *Ahmed*.
- Jennings, Alan*, A Sparse Matrix Scheme for the Computer Analysis of Structures. 1, 1.
- Kalaba, R. E.*—see *Kagiwada*.
- Kagiwada, H. H. and R. E. Kalaba*, An Initial Value Method for Fredholm Integral Equations of Convolution Type. 2, 143.
- Kagiwada, H. H., R. E. Kalaba and B. J. Vereeke*, Invariant Imbedding and Fredholm Integral Equations with Displacement Kernels on an Infinite Interval. 3, 221.
- Kolmogorov, A. N.*, Three Approaches to the Quantitative Definition of Information. 2, 157.
- Lebaud, C.*, On the Q.R. Algorithm with Shift. 4, 343.
- Lew, A.* Some Results in Differential Approximation. 3, 231.
- Mayoh, B. H.*, On Finding Optimal Covers. 1, 57.
- Millstein, R.*, The Logic Theorist in LISP. 2, 111.
- Moyne, J. A.*, An Introduction to Transformational Grammars, Book Reviews, and Notices. 2, 169.
- Muspratt, M. A.*, Graphic Display. 3, 259.
- Oliver, Robert M.*, Table of the Waiting Time Distribution for the Constant Service Queue (M/D/1). 1, 35.
- Pape, Uwe*, The Transformation and Analysis of Networks by Means of Computer Algorithms. 1, 75.
- Rabinowitz, P.*, Gaussian Integration of Functions with Branch Point Singularities. 4, 297.
- Roberts, S. M. and J. S. Shipman*, The Methods of Adjoint and Complementary Functions in Two-Point Boundary Value Problems. 3, 269.
- Shipman, J. S.*—see *Roberts*.
- Slagle, J. R.*, Automatically Finding Linear Functions. 3, 201.
- Solomon, Stephen-Ylan*, Homomorphism Types and some of their Applications in Model Theory and Algebraic Linguistics. 4, 319.
- Tewarson, R. P.*, On the Reduction of a Sparse Matrix to Hessenberg Form. 4, 283.
- Tewarson, R. P.*, On the Transformation of Symmetric Sparse Matrices to the Triple Diagonal Form. 3, 247.
- Vereeke, B. J.*—see *Kagiwada*.

Viswanathan, K., Solution of Polynomial Equation by Method of Deepest Descent. 3, 193.

Waddell, E. R.—see *Walston*.

Walston, D. E. and E. R. Waddell, Accelerating Convergence of One-Step Methods for the Numerical Solution of Ordinary Differential Equations. 1, 23.

VOLUME 3

Section A

Abrahams, Paul W., A Syntax-Directed Parser for Recalcitrant Grammars. 2/3, 105.

Aho, A. V. and J. D. Ullman, Linear Precedence Functions for Weak Precedence Grammars. 2/3, 149.

Cůlik II, K. and C. J. W. Morey, Formal Schemes for Language Translations. 1, 17.

Kennedy, Ken, A Global Flow Analysis Algorithm. 1, 5.

Kennedy, Ken, Safety of Code Motion. 2/3, 117.

Knobe, Bruce, A Simple System for Generating Efficient Lexical Scans. 2/3, 141.

Lassez, Jean-Louis, On the Structure of Systematic Prefix Codes. 2/3, 177.

Ledgard, Henry F., Embedding Markov Normal Algorithms within the λ -Calculus. 2/3, 131.

Maurer, Ward Douglas, A Semantic Extension of BNF. 2/3, 157.

Morey, C. J. W.—see *Culik II*.

Ullman, J. D.—see *Aho*.

VOLUME 3

Section B

Ahmed, N. and K. R. Rao, A Phase Spectrum for Binary Fourier Representation. 1, 85.

Abarbanel, Saul—see *Zwas*.

Cea, J. and R. Glowinski, Methodes Numeriques pour l'Ecoulement Laminaire d'une Fluide Rigide Viscoplastique Incompressible. 2/3, 225.

Glowinski, R.—see *Cea*.

Kayel, Robert G., A Linear Model for Gauss Elimination. 2/3, 279.

Longman, I. M., Computation of the Padé Table. 1, 53.

- Nelson, Paul, Jr.*, A Comparative Study of Invariant Imbedding and Superposition. 2/3, 195.
- Nicholson, H.*, Sequential Least-squares Prediction Based on Spectral Analysis. 2/3, 257.
- Park, S. K.*—see *Straeter*.
- Rao, K. R.*—see *Ahmed*.
- Roberts, S. M. and J. S. Shipman*, Extension of the Goodman-Lance Method of Adjoints. 1, 75.
- Shipman, J. S.*—see *Roberts*.
- Straeter, T. A. and S. K. Park*, A Modified Algorithm for the Simultaneous Extraction of Polynomial Roots. 2/3, 271.
- Tewarson, R. P.*, An Iterative Method for Computing Generalized Inverses. 1, 65.
- Zwas, Gideon and Saul Abarbanel*, Third and Fourth Order Accuracy Schemes for Two Dimensional Hyperbolic Equations. 2/3, 209.

VOLUME 4

Section A

- Cůlik, Karel II*, On Some Families of Languages Related to Development Systems. 1, 31.
- Cůlik, K. II, and J. Opatrný*, Literal Homomorphisms of OL-Languages. 3, 247.
- Cůlik, K. II, and J. Opatrný*, Macro OL-Systems. 4, 327.
- Ehrenfeucht, A., and G. Rozenberg*, The Equality of EOL Languages and Codings of OL Languages. 1, 105.
- Herman, G. T., and A. Walker*, Context Free Languages in Biological Systems. 4, 369.
- Ibarra, Oscar H., and R. T. Melson*, Some Results Concerning Automata on Two-Dimensional Tapes. 3, 269.
- Krithivasan, Kamala, and R. Siromoney*, Array Automata and Operations on Array Languages. 1, 3.
- Krithivasan, K., and R. Siromoney*, Characterizations of Regular and Context-Free Matrices. 3, 229.
- Lee, K. P.*—see *Rozenberg*.
- Maly, Kurt*, A Programming Style. 4, 309.
- Maly, Kurt*, Software Paging in an Interpretive Environment. 1, 69.
- Melson, R. T.*—see *Ibarra*.
- Mizumoto, M., J. Toyoda, and K. Tanaka*, B-Fuzzy Grammars. 4, 343.
- Opatrný, J.*—see *Cůlik*.

- Rozenberg, G.*, On a Family of Acceptors for Some Classes of Developmental Languages. 3, 199.
- Rozenberg, G., and K. P. Lee*, Development Systems with Finite Axiom Sets. Part I. Systems without Interactions. 1, 43.
- Rozenberg, G., and K. P. Lee*, Developmental Systems with Finite Axiom Sets. Part II. Systems with Interactions. 3, 281.
- Rozenberg, G.*—see also *Ehrenfeucht*.
- Siromoney, R.*—see *Krithivasan*.
- Tanaka, K.*—see *Mizumoto*.
- Toyoda, J.*—see *Mizumoto*.
- Walker, A.*—see *Herman*.
- Warren, Henry S., Jr.*, SETL Implementation: Data Structures, Primitives, and Storage Management. 1, 77.

VOLUME 4

Section B

- Atkinson, L. V., and A. J. Cornah*, Full Period Quadratic Hashing, 2, 177.
- Cornah, A. J.*—see *Atkinson*.
- Dupuy, Maryvonne*, A Method for the Approximation of Distributions, 2, 121.
- Ichida, Kozo, and Takeshi Kiyono*, Numerical Interpolation and Differentiation of Multivariable Functions, 2, 111.
- Kiyono, Takeshi*—see *Ichida*.
- Morgan-Sciarrino, J.*, Méthode Directe de Recherche du Point de Selle d'une Fonctionnelle Convexe-Concave et Application aux Problèmes Variationnels Elliptiques avec Deux Contrôles Antagonistes, 2, 143.
- Palekar, M. G.*, Numerical Solution of Two-point Boundary Value Problems, 2, 191.

